PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-234641

(43)Date of publication of application : 27.08.1999

(51)Int.Cl. H04N 7/14
G06F 17/30
H04M 1/65
H04M 11/00
// G09G 5/22

(21)Application number : 10-036379

(22)Date of filing : 18.02.1998

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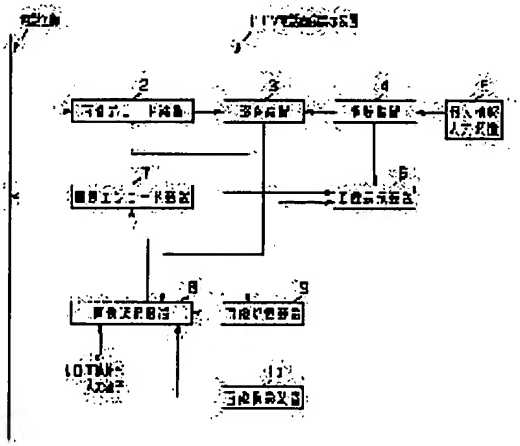
(54) DISPLAY DEVICE FOR IMAGE OF VIDEO TELEPHONE SET

(57)Abstract:

PROBLEM TO BE SOLVED: To enhance the operating convenience in the case of sending/receiving character information such as automatic answering message by selecting image data sent to an opposite party to secure the privacy and providing a character entry function.

SOLUTION: A collation device 3 collates image data such as a name, a telephone number and data representing image and audio data decoded by an image decoder 2 with personal information data entered from a personal information entry device 5 and registered in a registration device 4. The result of collation is given to an image selector 8, by which image data sent to an opposite party are selected automatically or manually. Furthermore, a character input device enters a character and a character image converter converts the character into image data to provide a character entry function. Thus, the operating convenience, in the case of sending/receiving the character information such as an automatic answering message, is enhanced.



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[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

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CLAIMS

[Claim(s)]
[Claim 1] The individual humanity news input device which inputs individual humanity news data, and the registration equipment which registers the inputted individual humanity news data, The image decoding equipment which extracts and decodes data from the telephone signal which received from the telephone line, The collating unit which collates the image data decoded by said image decoding equipment, and the individual humanity news data registered into said registration equipment, The image storage which memorizes the image data from said image decoding equipment, or the image data for transmission, The image photography equipment which photos a direct photographic subject and is changed into image data, and the image selecting arrangement which chooses one from said image photography equipment, an image external input terminal, or said image store of image data by the result of said collating unit, TV telephone image display device characterized by providing the image encoding equipment which encodes the image data chosen by said image selecting arrangement, and the image display device which displays image data.
[Claim 2] TV telephone image display device according to claim 1 which collates the image data decoded by said image decoding equipment, and the individual humanity news data registered into said registration equipment with said collating unit, and is characterized by choosing the image data of the photographic subject radiographed by said image photography equipment with said image selecting arrangement when in agreement.
[Claim 3] Said image selecting arrangement is claim 1 characterized by having a manual selection means, or TV telephone image display device given in two.
[Claim 4] The individual humanity news input device which inputs individual humanity news data, and the registration equipment which registers the inputted individual humanity news data, The image decoding equipment which extracts and decodes data from the telephone signal which received from the telephone line, The collating unit which collates the image data decoded by said image decoding equipment, and the individual humanity news data registered into said registration equipment, The image storage which memorizes the image data from said image decoding equipment, or the image data for transmission, The alphabetic character input device which inputs an alphabetic character, and the alphabetic character image transformation equipment which changes the inputted alphabetic character into image data, and is outputted to said image storage, The image photography equipment which photos a direct photographic subject and is changed into image data, and the image selecting arrangement which chooses one from said image photography equipment, an image external input terminal, or said image store of image data by the result of said collating unit, TV telephone image display device characterized by providing the image encoding equipment which encodes the image data chosen by said image selecting arrangement, and the image display device which displays image data.
[Claim 5] When said image selecting arrangement is connected to an answering machine mode input terminal and answering machine mode is set up by the answering machine mode input While making it possible to choose the image data memorized by said image store, to output to said image encoding equipment, and to transmit to the other party TV telephone image display device according to claim 4

characterized by what the telephone signal transmitted from the other party is decoded to image data with said image decoding equipment, and is memorized to said image storage.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]
[0001]
[Field of the Invention] This invention relates to TV telephone image display device controlled by TV which has telephone carrier transmitter ability, a personal computer, etc.
[0002]
[Description of the Prior Art] Conventionally, TV telephone image display device 1 consists of image decoding equipment 2, image encoding equipment 7, an image display device 6, and image photography equipment 11 grade, as shown in drawing 5 , and it is carried in telephone, a personal computer, etc.
[0003] Here, image decoding equipment 2 changes the telephone signal from the telephone line into image data, and displays image data in an image display device 6. Moreover, image encoding equipment 7 changes the image data from image photography equipment 11, and sends it into the telephone line.
[0004] Such a TV telephone image display device 1 calls a partner by telephone, with a counterpart lump and image encoding equipment 7, changes image data and sends into the telephone line the image which should be sent to image photography equipment 11. TV telephone image display device 1 of the other party receives the telephone signal from the telephone line, with image decoding equipment 2, forms image data and displays image data on an image display device 6.
[0005] Moreover, image data can be sent also from a partner and the image data which received this and has been sent by the partner can be displayed on an image display device 6.
[0006] Since its figure is always displayed on the image display device 6 of the other party when operating these TV telephone image display device 1 and using a telephone, protection of privacy is becoming difficult to a sudden telephone or the telephone from those who do not know.
[0007] Moreover, since an entry of data is only image photography equipment 11 fundamentally, an alphabetic character is written and an activity time-consuming [of photoing it] is needed.
[0008]
[Problem(s) to be Solved by the Invention] Since their figure and the scenery in a house were always conventionally displayed on the image display device 6 of the partner of a telephone like the above to a sudden telephone or the telephone from those who do not know, there was a problem that protection of privacy was becoming difficult. Moreover, when it was going to transmit information in written form, it wrote to the alphabetic character once, the activity time-consuming [of photoing it] was needed, and there was a problem of being user-unfriendly.
[0009] Then, it aims at offering TV telephone image display device which can improve the user-friendliness when transmitting and receiving text, such as an answering machine message, by this invention could choose the image data which transmits to a partner for protection of privacy in view of the above-mentioned problem in TV, a personal computer, etc. which have telephone carrier transmitter ability, and having prepared the alphabetic character input function.
[0010]
[Means for Solving the Problem] The individual humanity news input unit into which invention according to claim 1 inputs individual humanity news data, The registration equipment which registers

the inputted individual humanity news data, and the image decoding equipment which extracts and decodes data from the telephone signal which received from the telephone line, The collating unit which collates the image data decoded by said image decoding equipment, and the individual humanity news data registered into said registration equipment, The image storage which memorizes the image data from said image decoding equipment, or the image data for transmission, The image photography equipment which photos a direct photographic subject and is changed into image data, and the image selecting arrangement which chooses one from said image photography equipment, an image external input terminal, or said image store of image data by the result of said collating unit, It is characterized by providing the image encoding equipment which encodes the image data chosen by said image selecting arrangement, and the image display device which displays image data.

[0011] According to invention of claim 1, individual humanity news data, such as an identifier, the telephone number, an image, and voice, can be registered. Moreover, image data, such as an identifier transmitted and decoded from the other party, the telephone number, an image, and voice, and the registered individual humanity news data can be collated. Moreover, TV telephone image display device which can choose the image data which transmits to a partner by the result of a collating unit is realizable.

[0012] Invention according to claim 2 collates the image data decoded by said image decoding equipment, and the individual humanity news data registered into said registration equipment with said collating unit, and when in agreement, it is characterized by choosing the image data of the photographic subject radiographed by said image photography equipment with said image selecting arrangement.

[0013] When according to invention of claim 2 the image data transmitted and decoded from the other party and the registered individual humanity news data are collated and it is in agreement as a result of collating, the image data of photographic subjects, such as a user's figure radiographed with image photography equipment and scenery in a house, is chosen as image data which transmits to the other party, and TV telephone image display device which can be transmitted can be realized.

[0014] Invention according to claim 3 is characterized by equipping said image selecting arrangement with a manual selection means.

[0015] According to invention of claim 3, it is not concerned with the collated result of the image data transmitted and decoded from the other party, and the registered individual humanity news data, but a user operates an image selecting arrangement manually and can realize TV telephone image display device which can choose freely the image data which transmits to the other party.

[0016] The individual humanity news input unit into which invention according to claim 4 inputs individual humanity news data, The registration equipment which registers the inputted individual humanity news data, and the image decoding equipment which extracts and decodes data from the telephone signal which received from the telephone line, The collating unit which collates the image data decoded by said image decoding equipment, and the individual humanity news data registered into said registration equipment, The image storage which memorizes the image data from said image decoding equipment, or the image data for transmission, The alphabetic character input device which inputs an alphabetic character, and the alphabetic character image transformation equipment which changes the inputted alphabetic character into image data, and is outputted to said image storage, The image photography equipment which photos a direct photographic subject and is changed into image data, and the image selecting arrangement which chooses one from said image photography equipment, an image external input terminal, or said image store of image data by the result of said collating unit, It is characterized by providing the image encoding equipment which encodes the image data chosen by said image selecting arrangement, and the image display device which displays image data.

[0017] According to invention of claim 4, individual humanity news data, such as an identifier, the telephone number, an image, and voice, can be registered, and the image data which transmits to a partner by the result of having collated image data, such as an identifier transmitted and decoded, the telephone number, an image, and voice, and the registered individual humanity news data can be chosen from the other party. Moreover, an alphabetic character is inputted, and while being able to transmit and receive the information in alphabetic characters, such as an answering machine message, easily by

having prepared the alphabetic character input function changed into image data, TV telephone image display device which can be easily used also for a person a lug and an eye is realizable.
[0018] When said image selecting arrangement is connected to an answering machine mode input terminal and answering machine mode is set up by the answering machine mode input, while invention according to claim 5 makes it possible to choose the image data memorized by said image store, to output to said image encoding equipment, and to transmit to the other party, it decodes the telephone signal transmitted from the other party to image data with said image decoding equipment, and is characterized by what memorizes to said image store.
[0019] When according to invention of claim 5 it is switched to answering machine mode and the answering machine function is enabled by giving an answering machine mode input to an image selecting arrangement, image data, such as a memorized answering machine message, can be transmitted to the other party. Moreover, after transmitting the response from the other party according to a user's answering machine message from the other party and memorizing the decoded image data, a user can realize TV telephone image display device which can see this with an image display device.
[0020] TV telephone image display device of this invention according to claim 1 to 5 can operate and choose the image data which a user transmits to a partner according to a partner's telephone with automatic or hand control, and can protect privacy. Moreover, while being able to transmit and receive the information in alphabetic characters, such as an answering machine message, easily, TV telephone image display device which can be easily used also for a person a lug and an eye is realizable.
[0021]
[Embodiment of the Invention] The gestalt of operation of this invention is explained with reference to drawing 4 from drawing 1 . Drawing 1 is the block diagram showing TV telephone image display device 1 by the gestalt of operation of the 1st of this invention. The same sign is attached and explained to the same parts of drawing 1 and drawing 5 .
[0022] In drawing 1 , TV telephone image display device 1 consists of image decoding equipment 2, a collating unit 3, registration equipment 4, the individual humanity news input unit 5, an image display device 6, image encoding equipment 7, the image selecting arrangement 8, image storage 9, an image external input terminal 10, and image photography equipment 11. The image external input terminal 10 is connected to TV, VTR, a movie, a camera, etc.
[0023] In addition, an image display device 6 be connect to registration equipment 4, the image storage 9, and the image selecting arrangement 8, and TV telephone image display device 1 by the gestalt of operation of the 1st of this invention be make the configuration which be make to display the content of registration, the content of storage, or the content of selection of individual humanity news data on an image display device 6, and can check it in each equipment.
[0024] When registering individual humanity news into TV telephone image display device 1, TV telephone image display device 1 by the gestalt of operation of this invention inputs individual humanity news data, such as an identifier of persons of the arbitration selected beforehand, such as a family and an acquaintance, the telephone number, an image, and voice, from the individual humanity news input unit 5, and serves as the completion of registration by registering with registration equipment 4. Thereby, individual humanity news data, such as an identifier, the telephone number, an image, and voice, can be registered.
[0025] Next, the function for every equipment is explained.
[0026] Image decoding equipment 2 incorporates the telephone signal from the telephone line, extracts data, such as an identifier, the telephone number, an image, and voice, decodes this, and changes it into image data. Moreover, image decoding equipment 2 can store in the image store 9 the image data which is connected to the image store 9 and transmitted from the other party.
[0027] If the image data decoded by image decoding equipment 2 has the existence of data checked in a collating unit 3 and has data, it will be collated with the individual humanity news data which inputted from the individual humanity news input device 5 previously, and were registered into registration equipment 4, and will be processed with the image selecting arrangement 8. On the other hand, if there are no data, a telephone will be closed for end processing.

[0028] In the image selecting arrangement 8, it is based on the result collated in the collating unit 3. [whether the image data (a user's figure, scenery in a house, etc.) of the photographic subject radiographed by image photography equipment 11 in the image data which transmits to a partner is displayed, and] It chooses whether the external input image from TV and VTR which were connected to the image external input terminal 10, a movie, a camera, etc. is displayed, or it is made the image data beforehand memorized by the image store 9. On the other hand, it cannot be concerned with the collated result, but a user can operate the image selecting arrangement 8 manually, and the image data which transmits to a partner can also be chosen freely.
[0029] The image store 9 can memorize the image data which transmits to the other party, and the image data transmitted from the other party.
[0030] The image data chosen with the image selecting arrangement 8 is sent to image encoding equipment 7.
[0031] Image encoding equipment 7 changes the selected image data into a telephone signal, encodes it, sends it into the telephone line, and is transmitted to the other party.
[0032] By these functions, individual humanity news data, such as an identifier, the telephone number, an image, and voice, can be registered, and image data, such as an identifier transmitted and decoded from the other party, the telephone number, an image, and voice, and the registered individual humanity news data can be collated. Moreover, when the image data decoded by the result of a collating unit 3 and the registered individual humanity news data are in agreement, the image data of the photographic subjects (a user's figure, scenery in a house, etc.) radiographed with image photography equipment 11 can be chosen as image data which transmits to the other party.
[0033] Next, actuation of the 1st gestalt of this operation is explained with reference to drawing 3 . Drawing 3 is a flow chart explaining actuation from collating of data when the telephone call in drawing 1 has been got to selection of image data.
[0034] In drawing 3 , when the telephone call has been got, from the telephone signal transmitted by the partner, image decoding equipment 2 extracts data, such as an identifier, the telephone number, an image, and voice, they are decoded, and it incorporates as image data. The existence of the image data decoded by the collating unit 3 is checked (step S1), and if there is nothing, a telephone will be closed for end processing (step S5).
[0035] If there is image data decoded by image decoding equipment 2, a collating unit 3 will perform collating with the data and the individual humanity news data already registered by registration equipment 4 (step S2).
[0036] On the other hand, it cannot be concerned with the result collated with the collating unit 3, but while a user checks the content of selection with an image display device 6, the image selecting arrangement 8 can be operated manually, and the image data which transmits to a partner can also be chosen freely.
[0037] If in agreement with the registered data as a result of collating (step S3), the image data which displays the photographic subjects (a user's figure, scenery in a house, etc.) radiographed by image photography equipment 11 will be chosen with the image selecting arrangement 8 (step S4), and it will become processing termination (step S5).
[0038] If not in agreement with the registered individual humanity news data as a result of collating (step S3) In the external input image photoed with TV and VTR which were connected to the image external input terminal 10, a movie, a camera, etc. Or when judging whether the image data beforehand memorized by the image store 9 is chosen (step S6) and choosing an external input image, it becomes step 7 and becomes processing termination (step S5).
[0039] When choosing the image data memorized by the image store 9, it becomes step 8 and becomes processing termination (step S5).
[0040] Next, TV telephone image display device 1 by the gestalt of operation of the 2nd of this invention is explained. Drawing 2 is the block diagram showing TV telephone image display device 1 by the gestalt of operation of the 2nd of this invention. The same sign is attached and explained to the same parts of drawing 1 , drawing 2 , and drawing 5 .

[0041] In drawing 2 , TV telephone image display device 1 consists of image decoding equipment 2, a collating unit 3, registration equipment 4, the individual humanity news input unit 5, an image display device 6, image encoding equipment 7, the image selecting arrangement 8, the image storage 9, an image external input terminal 10, image photography equipment 11, and an answering machine mode input terminal 14. The image external input terminal 10 is connected to TV, VTR, a movie, a camera, etc. Moreover, it connects with the image selecting arrangement 8, and the answering machine mode input terminal 14 can be switched to answering machine mode by actuation of the answering machine mode input terminal 14.

[0042] In addition , an image display device 6 be connect to registration equipment 4 , the image storage 9 , the image selecting arrangement 8 , and alphabetic character image transformation equipment 12 , and TV telephone image display device 1 by the gestalt of operation of the 2nd of this invention be make the configuration which be make to display the content of registration , the content of storage , or the content of selection of individual humanity news data on an image display device 6 , and can check it in each equipment .

[0043] When registering individual humanity news data into TV telephone image display device 1 by the gestalt of operation of the 2nd of this invention, it is the same registration approach as TV telephone image display device 1 by the gestalt of operation of the 1st of this invention explained previously. Moreover, although the same is said of the function for every equipment of image decoding equipment 2, a collating unit 3, registration equipment 4, the individual humanity news input unit 5, an image display device 6, image encoding equipment 7, the image external input terminal 10, and image photography equipment 11, the image selecting arrangement 8 differs only from the image storage 9. Moreover, the alphabetic character input unit 13, alphabetic character image transformation equipment 12, and the answering machine mode input terminal 14 are added.

[0044] Next, each function of the image selecting arrangement 8, the image storage 9, the alphabetic character input unit 13, alphabetic character image transformation equipment 12, and the answering machine mode input terminal 14 is explained.

[0045] The alphabetic character input unit 13 can input an alphabetic character, and the inputted alphabetic character is changed into image data by alphabetic character image transformation equipment 12. Image data, such as a changed answering machine message, is memorized by the image storage 9.

[0046] The image store 9 can memorize image data, such as an answering machine message transmitted to the other party, and the image data transmitted from the other party.

[0047] When the answering machine mode input terminal 14 is connected to the image selecting arrangement 8 and answering machine mode is set up by the answering machine mode input, while making it possible to choose image data, such as an answering machine message memorized by the image store 9, to output to image encoding equipment 7, and to transmit to the other party, the telephone signal transmitted from the other party is decoded to image data with image decoding equipment 7, and it memorizes to the image store 9.

[0048] By these functions, text, such as an answering machine message, can be inputted, and it can transmit and receive as a partner.

[0049] Next, actuation of the gestalt of operation of the 2nd of this invention is explained with reference to drawing 4 . Since the actuation from collating of data when the telephone call has been got to selection of image data is the same as actuation of the 1st gestalt of this operation explained previously, actuation of image selection when using the alphabetic character input function of the 2nd gestalt of this operation for an answering machine is explained.

[0050] Drawing 4 is a flow chart explaining actuation of image selection when enabling the answering machine function by actuation of the answering machine mode input terminal 14 in drawing 2 .

[0051] First, when it judges whether a user's answering machine function is set up (step S11), the telephone call has been got from the other party and a user's answering machine function is not effective, it shifts to the flow chart which performs actuation from collating of data when the telephone call of drawing 3 has been got to selection of image data (step S17).

[0052] When a user's answering machine function is effective, the image data of the answering machine

message which already inputted from the individual humanity news input device 5, and was registered by registration equipment 4 is chosen with the image selecting arrangement 8, and it encodes with image encoding equipment 7, and changes into a telephone signal, this is sent into the telephone line, and it transmits to the other party (step S12).

[0053] Moreover, a judgment whether there is any response from the other party according to the answering machine message from a user or there is nothing is made (step S14), and when it is, after it decodes the telephone signal transmitted from the other party with image decoding equipment 2 and the image store 9 memorizes as image data (step S15), a user can see this with an image display device 6.

[0054] Moreover, it becomes processing termination when there is no response from the other party (step S16).

[0055] In addition, when a user telephones, the position of the other party and a user of actuation of the answering machine function of the other party is the same as that of explanation of drawing 4 only by putting in and changing.

[0056] the image of the photographic subjects (a user's figure, scenery in a house, etc.) radiographed with image photography equipment 11 by these -- or control of transmission and reception of text, such as making automatic selection of another image and an answering machine message, is performed.

[0057]

[Effect of the Invention] TV telephone image display device which can improve the user-friendliness when transmitting and receiving text, such as an answering machine message, by could choose the image data which transmits to a partner for protection of privacy by having prepared the function register individual humanity news data, in TV, a personal computer, etc. which have telephone carrier transmitter ability according to this invention as stated above, and having prepared the alphabetic character input function is realizable.

[Translation done.]

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TECHNICAL FIELD

[Field of the Invention] This invention relates to TV telephone image display device controlled by TV which has telephone carrier transmitter ability, a personal computer, etc.

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PRIOR ART

[Description of the Prior Art] Conventionally, TV telephone image display device 1 consists of image decoding equipment 2, image encoding equipment 7, an image display device 6, and image photography equipment 11 grade, as shown in drawing 5 , and it is carried in telephone, a personal computer, etc.
[0003] Here, image decoding equipment 2 changes the telephone signal from the telephone line into image data, and displays image data in an image display device 6. Moreover, image encoding equipment 7 changes the image data from image photography equipment 11, and sends it into the telephone line.
[0004] Such a TV telephone image display device 1 calls a partner by telephone, with a counterpart lump and image encoding equipment 7, changes image data and sends into the telephone line the image which should be sent to image photography equipment 11. TV telephone image display device 1 of the other party receives the telephone signal from the telephone line, with image decoding equipment 2, forms image data and displays image data on an image display device 6.
[0005] Moreover, image data can be sent also from a partner and the image data which received this and has been sent by the partner can be displayed on an image display device 6.
[0006] Since its figure is always displayed on the image display device 6 of the other party when operating these TV telephone image display device 1 and using a telephone, protection of privacy is becoming difficult to a sudden telephone or the telephone from those who do not know.
[0007] Moreover, since an entry of data is only image photography equipment 11 fundamentally, an alphabetic character is written and an activity time-consuming [of photoing it] is needed.

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EFFECT OF THE INVENTION

[Effect of the Invention] TV telephone image display device which can improve the user-friendliness when transmitting and receiving text, such as an answering machine message, by could choose the image data which transmits to a partner for protection of privacy by having prepared the function register individual humanity news data, in TV, a personal computer, etc. which have telephone carrier transmitter ability according to this invention as stated above, and having prepared the alphabetic character input function is realizable.

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TECHNICAL PROBLEM

[Problem(s) to be Solved by the Invention] Since their figure and the scenery in a house were always conventionally displayed on the image display device 6 of the partner of a telephone like the above to a sudden telephone or the telephone from those who do not know, there was a problem that protection of privacy was becoming difficult. Moreover, when it was going to transmit information in written form, it wrote to the alphabetic character once, the activity time-consuming [of photoing it] was needed, and there was a problem of being user-unfriendly.
[0009] Then, it aims at offering TV telephone image display device which can improve the user-friendliness when transmitting and receiving text, such as an answering machine message, by this invention could choose the image data which transmits to a partner for protection of privacy in view of the above-mentioned problem in TV, a personal computer, etc. which have telephone carrier transmitter ability, and having prepared the alphabetic character input function.

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]
[Drawing 1] The block diagram of TV telephone image display device concerning the gestalt of operation of the 1st of this invention.
[Drawing 2] The block diagram of TV telephone image display device concerning the gestalt of operation of the 2nd of this invention.
[Drawing 3] The flow chart explaining actuation of the image data selection in drawing 1 and drawing 2 .
[Drawing 4] The flow chart explaining actuation of the answering machine function in drawing 2 .
[Drawing 5] The block diagram of the conventional TV telephone image display device.
[Description of Notations]
1 -- TV Telephone Image Display Device
2 -- Image Decoding Equipment
3 -- Collating Unit
4 -- Registration Equipment
5 -- Individual Humanity News Input Unit
6 -- Image Display Device
7 -- Image Encoding Equipment
8 -- Image Selecting Arrangement
9 -- Image Storage
10 -- Image External Input Terminal
11 -- Image Photography Equipment
12 -- Alphabetic Character Image Transformation Equipment
13 -- Alphabetic Character Input Unit
14 -- Answering Machine Mode Input Terminal

[Translation done.]

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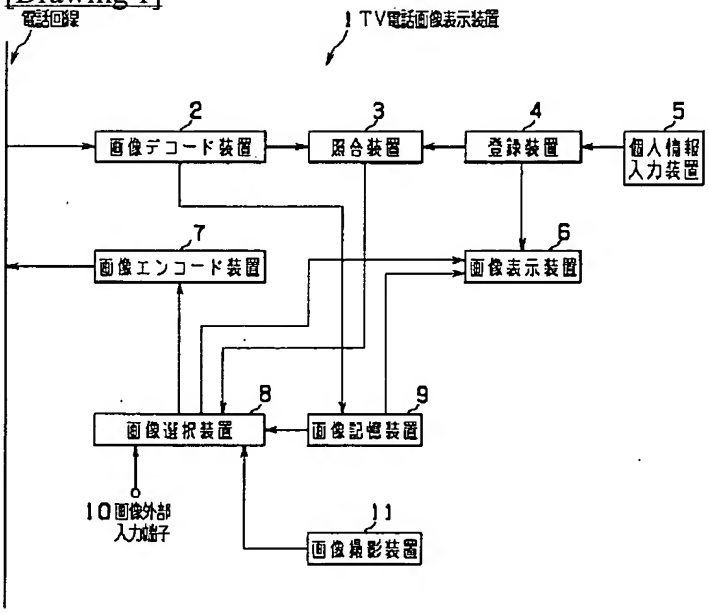
DRAWINGS

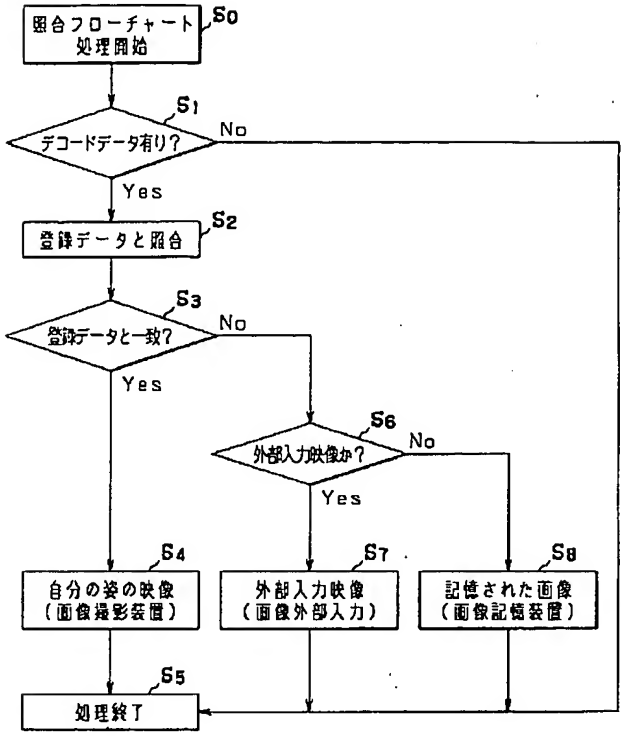
[Drawing 1]



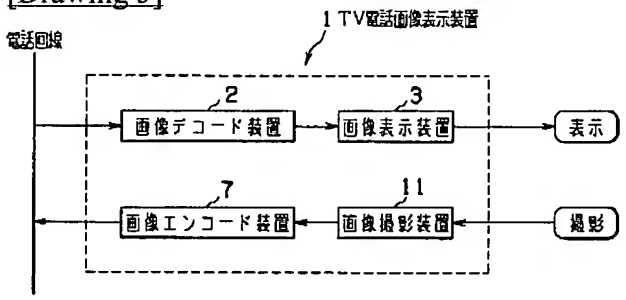
2: Image decoder
3: Collating unit
4: Registration equipment
5: News input
6: Display
7: Image Encoder
8: Image Selecting arrangement
9: Image storage
10: Image External terminal
11: Camera

10: Connected To: TV, VTR, movie, Camera etc

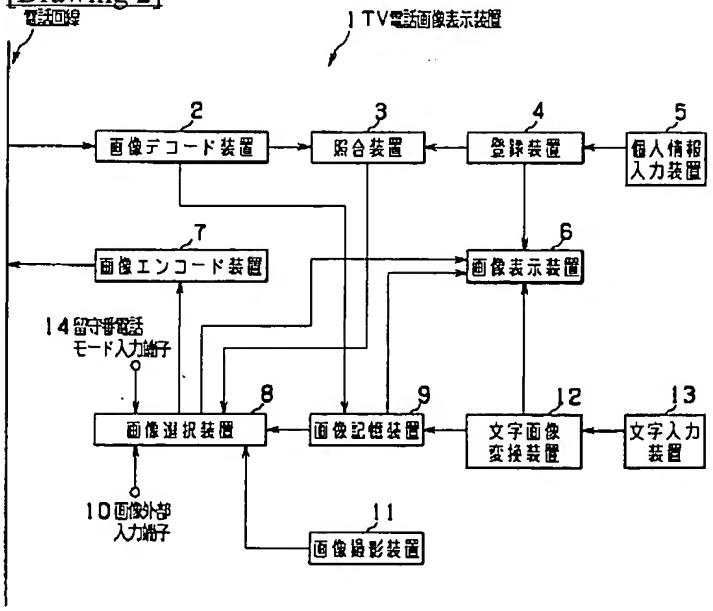
[Drawing 3]



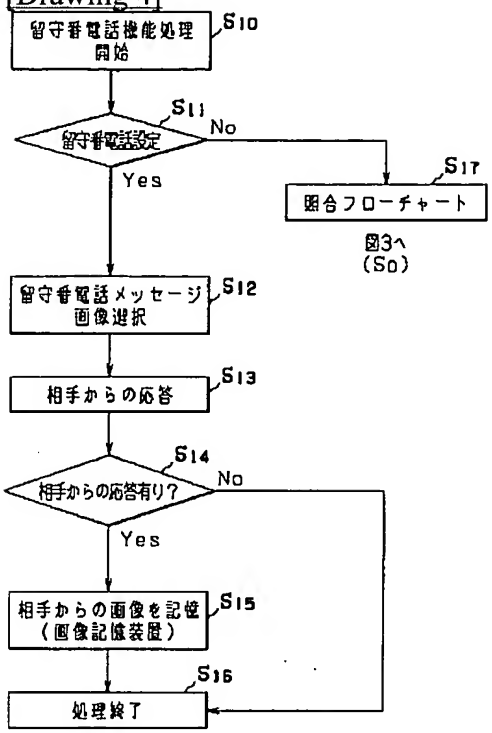
[Drawing 5]



[Drawing 2]



[Drawing 4]



[Translation done.]